



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

American Fern Journal

Vol. 10

APRIL-JUNE, 1920

No. 2.

The Fern Flora of Nebraska—II

T. J. FITZPATRICK

ATHYRIUM FILIX-FOEMINA (L.) Roth. (*Asplenium filix-foemina* (L.) Bernh.) Lady fern.

Woods and thickets, frequent only in favorable places but not found in most portions of the state. A widely variable species and widely distributed, ranging generally throughout North America, also found in Europe and Asia.

BROWN COUNTY: Long Pine, Seven Springs, July, 1892, no. 441, *Albert F. Woods*; Long Pine, September, 1893, no. 2938, *Fred Clements*.

DOUGLAS COUNTY: Omaha, from garden, from a plant gotten from 2569 Pierce St., July 27, 1901; also September 16, 1901, and September 2, 1902, *William Cleburne*.

LANCASTER COUNTY: Lincoln, July, 1886, no. 6122, *H. J. Webber*, a poor and fragmentary specimen but clearly this species. It is labeled *Asplenium thelypteroides* Michx.

CHEILANTHES FEEI Moore. (*Cheilanthes lanuginosa* Nutt.) Lip fern.

Known only from the extreme western and southwestern parts of the state; occurs on exposed rocks.

BANNER COUNTY: exposed rocks of a cañon, one mile southwest from Hackberry Springs, August, 1890, *P. A. Rydberg*; August 8, 1891, no. 479, *P. A. Rydberg*.

REDWILLOW COUNTY: reported by C. E. Bessey.

[Vol. 10, No. 1 of the JOURNAL, pages 1-32, was issued April 21, 1920.]

CRYPTOGRAMMA ACROSTICHOIDES R. Br. Rock-brake.

Rocky places, rare, known only from one locality.

FRANKLIN COUNTY: Franklin, 1893, *E. M. Hussong*. A single fruiting blade sent to Dr. C. E. Bessey for determination. The locality is somewhat outside of the known range of the species but the specimen seems properly referred.

CYSTOPTERIS FRAGILIS (L.) Bernh. (*Filix fragilis* (L.) Under.) Brittle fern.

This species is found in rich woods, along wooded banks of streams, and in cañons, and is rather common in most portions of the state. It is the most abundant fern of Nebraska.

DIXON COUNTY: Ponca, bluffs of the Missouri river, June 15, 1893, no. 2556, *Fred Clements*.

DOUGLAS COUNTY: Omaha, April, 1889, no. 6118, *H. J. Webber*.

CASS COUNTY: Plattsmouth, shaded ravines, Missouri river bluffs, May 15, 1886, no. 6117, *H. J. Webber*; also reported from the vicinity of Weeping Water by Bessey & Webber. There is an immature specimen from Weeping Water, collected in moist rocky places, May 14, 1892, by *Emma Stover*.

OTOE COUNTY: Nebraska City, June 1, 1889, no. 6115, *H. J. Webber*.

SAUNDERS COUNTY: Ashland, June 24, 1890, *Tom A. Williams*.

NEMAHA COUNTY: Nemaha, July 5, 1910, no. 5140, *Rev. J. M. Bates*; also reported from the vicinity of Peru by Bessey & Webber.

JOHNSON COUNTY: Tecumseh, *Anna Pinnel*.

JEFFERSON COUNTY: Endicott, Republican valley, August 23, 1893, no. 2002, *A. F. Woods & DeAlton Saunders*.

LANCASTER COUNTY: Lincoln, damp wooded banks, June 3, 1890, no. 6120, *H. J. Webber* from Lucena Hardin;

old sandstone quarry, June, 1886, *J. G. Smith*; on banks of Antelope creek, opposite H Street, May 20, 1886, *T. Walton*; Lincoln, shaded cliffs, May, 1895, *C. B. Robinson*.

SEWARD COUNTY: Milford, May, 1886, no. 6116, *H. J. Webber*.

CUSTER COUNTY: Anselmo, wooded bluffs, July 8, 1889, no. 6121, *H. J. Webber*.

THOMAS COUNTY: near Plummer ford, shaded banks of Dismal river, July 3, 1893, no. 1452, *P. A. Rydberg*; Halsey, June 24, 1912, *Raymond J. Pool & Donald Folsom*.

ANTELOPE COUNTY: on Verdigris creek, near Royal, 1908, *N. F. Peterson*.

BROWN COUNTY: Long Pine, cañons, July 23, 1887, *C. E. Bessey*; Long Pine, Seven Springs, July, 1892, no. 439, *Albert F. Woods*; Long Pine July 29, 1892, no. 270, *J. G. Smith & Roscoe Pound*.

DAWES COUNTY: Belmont, wooded bluffs, July 18, 1889, no 6119, *H. J. Webber*.

SIOUX COUNTY: Squaw cañon, August, 1892, no. 439, *Albert F. Woods*; Monroe cañon, north of Harrison, June 22, 1911, *Raymond J. Pool & C. V. Williams*.

DRYOPTERIS CRISTATA (L.) A. Gray. (*Aspidium cristatum* (L.) Swartz). Crested shield fern.

This species is known only from one locality in the state.

THOMAS COUNTY: central Nebraska, on south fork of Dismal river, on wet meadows, August 14, 1893, no. 1530, *P. A. Rydberg*.

DRYOPTERIS SPINULOSA (Muell.) Kuntze. (*Aspidium spinulosum* (Muell.) Swartz). Spinulose shield fern.

Rarely found in Nebraska and known from only two localities.

THOMAS COUNTY: damp shaded banks, near water's edge, Dismal river, July 12, 1889, nos. 6126, 6125, 6127, *H. J. Webber*; near Plummer ford, Dismal river, in damp woods, July 4, 1893, no. 1484, *P. A. Rydberg*.

BROWN COUNTY: Long Pine, June 25, 1892, *Rev. J. M. Bates*; September 4, 1893, no. 2939, *Fred Clements*.

DRYOPTERIS THELYPTERIS (L.) A. Gray. (*Aspidium thelypteris* (L.) Swartz). Marsh shield-fern.

This species is common in most portions of the state. It occurs in moist shady places and grassy wet bottoms, often associated with *Onoclea sensibilis* and forming with it a fern meadow.

JEFFERSON COUNTY: Endicott, Republican valley, August 23, 1893, no. 2004, *A. F. Woods & DeAlton Saunders*.

FRANKLIN COUNTY: in prairie hay cut in the Republican valley, near Franklin, May 5, 1896, no. 6777, *E. M. Husson*.

KEARNEY COUNTY: marsh near Platte river, June 15, 1891, no. 478, *P. A. Rydberg*; Newark, July, 1892, *Dr. H. Hapeman*.

BUFFALO COUNTY: Kearney, 1887, *G. A. Beecher*; August, 1893, *Misses Smith & Lee*.

THOMAS COUNTY: wet bottoms, Loup river, July 11, 1889, no. 6123, *H. J. Webber*; wet bottoms, Dismal river, July 12, 1889, no. 6124, *H. J. Webber*; on south fork of Dismal river, in wet meadow, August 14, 1893, no. 1684, *P. A. Rydberg*; Halsey, July, 1911, *R. J. Pool*; also reported from the vicinity of Thedford by *Bessey & Webber*.

DODGE COUNTY: Fremont, August 9, 1872, *C. E. Bessey*.

BROWN COUNTY: Long Pine, July 23, 1887, *C. E. Bessey*; Long Pine, Seven Springs, July, 1892, no. 443, *Albert F. Woods*; Long Pine, September 2, 1893, no. 2936, *Fred Clements*.

CHERRY COUNTY: July 19, 1892, no. 278, *J. G. Smith & Roscoe Pound*.

DAWES COUNTY: reported from the vicinity of Crawford by Bessey & Webber.

NOTHOLAENA DEALBATA (Pursh) Kuntze. (*Notholaena nivea dealbata* (Pursh) Davenport).

This species reaches its northern limit in Nebraska, ranging from Nebraska and Missouri to Texas and Arizona. Known in Nebraska only from a single locality.

CASS COUNTY: Weeping Water, growing from crevices in rocks, August 22, 1888, no. 6112, *H. J. Webber*; dry rocks, August 22, 1888, *Tom A. Williams*; November 11, 1895, no. 6773, *T. A. Williams*.

ONOCLEA SENSIBILIS L. Sensitive fern.

Frequent or common in low wet soil, often in grassy places, in some localities becoming a weed; ranges generally throughout the state.

OTOE COUNTY: Nebraska City, March, 1904, *Cooper Dunn*, a weather beaten fragment of the preceding year's growth.

JEFFERSON COUNTY: Fairbury, southern Nebraska, September 1, 1892, no. 7270, *Ruth A. Price*; Endicott, Republican valley, August 23, 1893, no. 2003, *A. F. Woods & DeAlton Saunders*.

BUFFALO COUNTY: Kearney, August, 1893, no. 7703; along the Platte river, 1894, both by *Misses Smith & Lee*; Kearney, no. 6111, *H. J. Webber*.

FRANKLIN COUNTY: in prairie hay cut in the Republican valley near Franklin, May 5, 1896, no. 6775, *E. M. Hussong*.

THOMAS COUNTY: in woods near Plummer ford, Dismal river, August 23, 1893, no. 1377, *P. A. Rydberg*; low prairies, very common, Dismal river, July 12, 1889, no. 6110, *H. J. Webber*; Halsey, July, 1911, *R. J. Pool*.

ANTELOPE COUNTY: reported by Bessey & Webber.

HOLT COUNTY: Paddock, July 29, 1893, no. 2802, *Fred Clements*.

BROWN COUNTY: Long Pine, June 25, 1892, *Rev. J. M. Bates*, an unusual specimen with the tips of the lobes coarsely crenately toothed or incised and fluted; Long Pine, July, 1892, no. 442, *Albert F. Woods*; Long Pine, August 25, 1908, *Rev. J. M. Bates*.

CHERRY COUNTY: July 19, 1892, no. 277, *J. G. Smith & Roscoe Pound*; also a specimen collected twenty miles southwest of Valentine, no further data.

PELLAEA ATROPURPUREA (L.) Link. Cliff brake.

In localities where it is found this species is frequent in crevices of rocks; in Nebraska found only in the southeastern portion.

CASS COUNTY: Weeping Water, dry calcareous rocks, May 23, 1887, no. 6108, *H. J. Webber*; April 19, 1919, *R. J. Pool*.

NEMAHA COUNTY: Brownville, January 2, 1889, no. 6109, *H. J. Webber*; reported from the vicinity of Peru by Bessey & Webber.

JEFFERSON COUNTY: Endicott, July 17, 1892, *Miss Case*; August 23, 1893, no. 2001, *A. F. Woods & DeAlton Saunders*.

WOODSIA OBTUSA (Spreng.) Torrey.

This species seems to be limited mostly to the southeastern portion of the state, rarely found in the central and western portions. Found in crevices of rock cliffs.

PAWNEE COUNTY: Pawnee City, 1892, *C. H. Barnard*.

LANCASTER COUNTY: Emerald, December 7, 1895, no. 6774, *A. S. Hunter*.

CUSTER COUNTY: Callaway, July 3, 1902, no. 2370, *Rev. J. M. Bates*.

BROWN COUNTY: Long Pine, reported by Bessey & Webber.

WOODSIA OREGANA D. C. Eaton.

This species apparently is confined to the western half of the state; it is frequent on dry open bluffs.

THOMAS COUNTY: dry banks, Dismal river, July 12, 1889, no. 6106, *H. J. Webber*; on hillside near Plummer ford, Dismal river, July 3, 1893, no. 1479, *P. A. Rydberg*.

BROWN COUNTY: Long Pine, collected by *J. Conklin*, no. 8 ex-herbarium G. D. Swezey; Long Pine, cañons, July 23, 1887, *C. E. Bessey*.

DAWES COUNTY: Belmont, dry banks, July 18, 1889, no. 6105, *H. J. Webber*.

SIOUX COUNTY: on buttes, August, 1892, no. 440, *Albert F. Woods*; Hat Creek, June 24, 1890, *Tom A. Williams*.

MARSILEACEAE

MARSILEA VESTITA Hook. & Grev. Hairy pepperwort.

In ponds, frequent in many places in the state. During periods of drought terrestrial specimens may be found having hairy and narrow leaflets and these have been named the variety *tenuifolia* Und. & Cook.

JEFFERSON COUNTY: Meridian township, section 22, 1891, *E. F. Lange*; Fairbury, September 3, 1892, *E. F. Lange*.

FILLMORE COUNTY: Fairmont, August, 1890, and August 4, 1891, *J. H. Haughwout*; August, 1890, no. 6113, labeled var. *tenuifolia* Und. & Cook, *H. J. Webber*; ponds, August 1, 1890, *J. H. Haughwout*, labeled var. *tenuifolia* Und. & Cook.

WEBSTER COUNTY: Red Cloud, *Rev. J. M. Bates*.

KEARNEY COUNTY: Minden, August 13, 1891, *Dr. H. Hapeman*, labeled var. *tenuifolia*?; prairies and sand-hills of central Nebraska, July 13, 1900, altitude 500 meters, no. 6604, *P. A. Rydberg*.

DEUEL COUNTY: July 3, 1893, *E. M. Gilliard*.

BOX BUTTE COUNTY: July 7, 1892, no. 275, *J. G. Smith & Roscoe Pound*.

PIERCE COUNTY: Plainview, July 2, 1907, in shallow ponds, *N. F. Petersen*.

ANTELOPE COUNTY: Clearwater, June 16, 1899, reported as a weed, no. 12036, *D. M. Decamp*; Brunswick, June, 1909, *N. F. Petersen*.

SALVINIACEAE

AZOLLA CAROLINIANA Willd.

Apparently known from only one or two localities, rare.

THOMAS COUNTY: on ground at edge of water, Dismal river, July 12, 1889, no. 6101, *H. J. Webber*; in a spring near Plummer ford, Dismal river, August 24, 1893, *P. A. Rydberg*.

GARDEN COUNTY: Dr. R. J. Pool reports finding this species in great abundance along Blue creek in May, 1912.

EQUISETACEAE

EQUISETUM ARVENSE L.

Common in sandy soil, fields, pastures, waste places, roadsides. The simple fertile stems appearing in March and April and soon withering after fruiting, the branched sterile stems come later and persist throughout the summer. This species seems to appear mostly as a weed and will be found in low wet grounds to rather high and dry situations.

SARPY COUNTY: Bellevue, May 13, 1893, no. 4097, *Roscoe Pound & DeAlton Saunders*.

SAUNDERS COUNTY: Ashland, June 24, 1890, *Tom A. Williams*

CASS COUNTY: Weeping Water, reported by Bessey & Webber.

OTOE COUNTY: Nebraska City, May 28, 1893, no. 4067, *Roscoe Pound & F. E. Clements*.

NEMAHA COUNTY: Brownville, reported by Bessey & Webber.

GAGE COUNTY: Wymore, reported by Bessey & Webber.

LANCASTER COUNTY: Lincoln, May, 1890, May 2, 1893, no. 3230, *Pound, Clements & Saunders*; also a specimen without definite data by *A. F. Woods*, and a similar one by *Fred C. Cooley*.

SEWARD COUNTY: Milford, low wet ground, May 23, 1886, no. 6138, *H. J. Webber*.

CUSTER COUNTY: Anselmo, reported by Bessey & Webber.

THOMAS COUNTY: near Thedford, in meadow on Middle Loup river, September 9, 1893, no. 1378, *P. A. Rydberg*; on wet meadow near Nattick, June. 20, 1893, no. 1378, *P. A. Rydberg*.

BROWN COUNTY: Long Pine, reported by Bessey & Webber.

DAWES COUNTY: near Pine Ridge, July 24, 1889, *H. J. Webber*.

SIOUX COUNTY: Squaw cañon, August, 1892, no. 447, *Albert F. Woods*; Hat creek basin, August 1, 1889, no. 6133, *H. J. Webber*.

EQUISETUM FLUVIATILE L. (*E. limosum* L.)

This species apparently is infrequent in Nebraska. It occurs in swampy places and along borders of streams and ponds.

KEARNEY COUNTY: Platte river, June 15, 1891, no. 475, *P. A. Rydberg*.

GARFIELD COUNTY: Burwell, July 22, 1909, no. 4917, *Rev. J. M. Bates*.

HOLT COUNTY: southwest part, along Holt creek, August 2, 1892, *Rev. J. M. Bates*.

BROWN COUNTY: Long Pine, August 3, 1909, no. 4933, *Rev. J. M. Bates*.

EQUISETUM LAEVIGATUM A. Braun.

Common in moist soil in low fields, pastures, and waste places.

DIXON COUNTY: Ponca, June 14, 1893, no. 2542, *Fred Clements*

CASS COUNTY: Weeping Water, reported by Bessey & Webber.

LANCASTER COUNTY: Lincoln, prairie bank of Antelope, northeast of town, May 8, 1885, no. 6139, *H. J. Webber*; marshy prairie, Lincoln, April, 1886, *J. G. Smith*; marshy grounds, Lincoln, May, 1886, *J. G. Smith*.

SALINE COUNTY: Crete, reported by Bessey & Webber.

JEFFERSON COUNTY: Fairbury, low land near water, May 31, 1886, no. 32.

WEBSTER COUNTY: Red Cloud, June 2, 1908, no. 4509, *Rev. J. M. Bates*.

KEARNEY COUNTY: wet prairie, June 15, 1891, no. 476, *P. A. Rydberg*.

DUNDY COUNTY: Benkelman, August 5, 1893, no. 2000, *A. F. Woods & DeAlton Saunders*.

CUSTER COUNTY: Callaway, May 28, 1902, no. 2225, *Rev. J. M. Bates*.

THOMAS COUNTY: in wet meadow on Middle Loup river near Thedford, June 14, 1893, nos. 1260 & 1283, *P. A. Rydberg*; Thedford, July 11 & 14, 1889, nos. 6136 & 6131, *H. J. Webber*; Halsey, July, 1911, *R. J. Pool*.

GARDEN COUNTY: Oshkosh, June 6, 1912, *Raymond J. Pool*.

BROWN COUNTY: Long Pine, reported by Bessey & Webber.

SHERIDAN COUNTY: July 9, 1892, no. 276, *J. G. Smith & Roscoe Pound*.

DAWES COUNTY: Pine Ridge, July 24, 1889, no. 6130, *H. J. Webber*.

SIOUX COUNTY: Squaw cañon, August, 1892, no. 445, *Albert F. Woods*; Hat Creek basin, August 2, 1889, *H. J. Webber*.

There are also two sheets collected by Samuel Aughey, about 1875, without definite data.

EQUISETUM ROBUSTUM A. Braun.

This species is quite common along river banks throughout the state:

DIXON COUNTY: Ponca, June 14, 1893, no. 2543, *Fred Clements*.

SARPY COUNTY: Bellevue, September 3, 1893, no. 3189, *Roscoe Pound & D. A. Saunders*.

CASS COUNTY: South Bend, *Mr. Kemble*, no further data.

NEMAHA COUNTY: Missouri river bottoms, Brownville, January 2, 1889, nos. 6132 & 6140, *H. J. Webber*, specimens with branches.

KEARNEY COUNTY: along Platte river, June 15, 1891, no. 475, *P. A. Rydberg*.

BUFFALO COUNTY: Kearney, banks of the Platte river, July 20, 1901, no. 54, *J. J. Thornber*.

THOMAS COUNTY: on hillside near Plummer ford, Dismal river, August 24, 1893, no. 1722, *P. A. Rydberg*; Thedford, July 10, 1889, no. 6135, *H. J. Webber*.

CHERRY COUNTY: Fort Niobrara, August, 1890, no. 38, *Rev. J. M. Bates*. This fragmentary specimen is labeled *Equisetum hyemale* L. and it was published as such by *Dr. C. E. Bessey*.

DAWES COUNTY: Pine Ridge, July 14, 1889, no. 6134, and July 24, 1889, no. 6137, *H. J. Webber*.

SIoux COUNTY: Squaw cañon, August, 1892, no. 446, *Albert F. Woods*; Monroe cañon, north of Harrison, June 18, 1911, *Raymond J. Pool & C. V. Williams*.

EQUISETUM VARIEGATUM Schleich.

This species seems to be infrequent or rare; it occurs usually in wet soil.

LANCASTER COUNTY: Lincoln, Antelope creek, May, 1887, *J. R. Schofield*.

KEARNEY COUNTY: wet prairies, June 13, 1891, on. 477, *P. A. Rydberg*.

HOOKE COUNTY: on wet meadow near Middle Loup river, July 17, 1893, no. 1801, *P. A. Rydberg*.

BROWN COUNTY: Long Pine, reported by Bessey & Webber.

CHERRY COUNTY: Valentine, July, 1891, no. 39, *Rev. J. M. Bates*.

SELAGINELLACEAE

SELAGINELLA RUPESTRIS (L.) Spring.

Dry rocky soil or cliffs, infrequent or rare, apparently confined to certain localities, sometimes locally frequent.

BROWN COUNTY: sandhills, Long Pine, July 23, 1887, also 1890, *C. E. Bessey*; July 28, 1892, no. 271, *J. G. Smith & Roscoe Pound*.

ANTELOPE COUNTY: near Royal, August 7, 1907, *N. F. Petersen*.

LINCOLN COUNTY: reported by Bessey & Webber.

CHEYENNE county: reported by Bessey & Webber.

ISOETACEAE

ISOETES MELANOPODA J. Gay.

Known in Nebraska from one locality in the southeastern portion, rarely collected.

FILLMORE COUNTY: northeastern part of the county, roadside ditches on road north from Exeter, about one half mile from the depot, September 8, 1888, *Dr. J. Herman Wibbe*.

UNIVERSITY OF NEBRASKA, LINCOLN.